

y-second Annual Meeting

Source: https://www.industrydocuments.ucsf.edu/docs/tpnv0000

SUBGROUP J

Room A207

MODERN BIOLOGY AND PUBLIC POLICY

Organizer: S.C. Tripathi

IIT Research Institute, Chicago

Biomedical sciences, scientists, and institutions are increasingly being exposed to public action and scrutiny. It is, therefore, important to investigate a whole variety of roles that biologists must play in the areas of economic, scientific, and technological development of modern society. Biologists are expanding their horizons beyond the realm of their laboratories—to the world of decision makers and facilitators of the decision making processes in government as well as industry, thus providing the opportunites to contribute more directly and significantly to the welfare of society.

As we move closer to the twenty-first century, we the biologists are working closer with professionals from other disciplines to formulate public policies. The fascinating policy-making in biomedical and biotechnical areas poses a wide variety of challenges. The issues at stake are: under-or over-regulation, national and global competitiveness, post-cold war control of bio-warfare agents, under-defined public policies and postures of governments, declining biomedical funding as a universal trend and finally, failure of our educational system in communicating to the public about the pros and cons of newly evolving technologies.

The goal of this subgroup meeting is to bring together an interdisciplinary group of participants from life sciences, economics, political science, law, environment, engineering, and so forth and organize a discussion on why, when, where, and how should the various groups act towards the common good.

SUBGROUP K

Room C112

MICROSCOPIC DETECTION OF SIGNALING EVENTS DURING DEVELOPMENT

Organizers: H. Florman

Worcester Foundation for Experimental Biology,

Shrewsbury R. Cardullo

University of California, Riverside

The goal of this subgroup meeting is to introduce participants to alternative methodologies for studying important problems in developmental and molecular biology using quantitative microscopy. The speakers will cover a variety of topics including ion regulation during embryogenesis and the cell cycle, receptor-effector coupling, transcriptional control, and signalling events during development. Emphasis will be on specific methodologies and application to developmental systems at the molecular and cellular level.

SPEAKERS INCLUDE:

Analysis of Ion-Transport in Single Pre-Implantation Embryos. J. Baltz, Harvard Medical School, Boston

Signal Transduction during Vertebrate Mesoderm Induction. W. Busa, Johns Hopkins University, Baltimore

Single-Molecule Analysis of DNA Transcription by E. coli RNA Polymerase. J. Gelles, Brandeis University, Waltham

Calcium Control of the Meiotic and Mitotic Cell Cycle. R. Tombes, Clemson University

SUBGROUP L

Room C106

MECHANICAL DEFORMATION AND CELL RESPONSES

Organizers: A.J. Banes, Jr.

University of North Carolina, Chapel Hill

H. Vandenburgh

The Miriam Hospital, Brown University,

Providence

The subgroup will involve discussion and presentations on recent advances in application of mechanical deformation to target cells in vitro and specific responses such as effects on DNA synthesis and cell division, second messenger responses, growth factor elaboration and/or response, cytoskeletal filament responses, and integrin expression.

We will include talks on cytoplasmic filament proteins, signalling pathways, and integrins if possible and would like to conduct the subgroup meeting in a WORKSHOP FORMAT to encourage interaction with all those in attendance. Please bring one or two slides and join in the discussion on how cells respond to mechanical load.

SPEAKERS INCLUDE:

The Effects of Mechanical Stress on Vascular Cells. S. Dethlefsen, The Children's Hospital, Boston

The Effects of Load on Cardiac Myocyte Differentiation In Vitro. L. Terracio, University of South Carolina, Charleston

Mechanics of Cell Deformation. L. Thibault, University of Pennsylvania, Philadelphia

Striated Skeletal Myocytes: Hormonal and Growth Factor Responses with Mechanical Load. H. Vendenburgh, Miriam Hospital, Providence

Differential Mitogenic Signaling and Mineralization Responses of Bone, Muscle, and Tendon Cells in Response to Cyclic Mechanical Load In Vitro.

A.J. Banes, University of North Carolina, Chapel Hill.

	00 AM 0 PM		REGISTRATION (LOBBY B)					
	D PM-		EDUCATION COMMITTEE WORKSHOP (ROOM A201)		FLUORESCENCE AND IMMUNOLOGICAL TECHNIQUES IN CELL BIOLOGY Organizer: B.R. Brinkley, Baylor Coll of Med, Houston			
,			Autoantibodies as Probes for Studies of Centromere Structure Blochemistry RAYMOND ZINKOWSKI, Univ of Alabama at Birmingham		Immunofluorescence as a Tool to Study Molecular Organization of the Nucleus DAVID SPECTOR, Cold Spring Harbor Lab	Fluorescence Resonance Energy Transfer in the Study of Signal Transduction in Living Cells ROGER TSIEN, Univ of California, San Diego	Microinjection of Fluorescent Antibodies for Studies of Actin and Myosin in Living Cells YU-LI WANG, Worcester Fndn, Shrewsbury	Immunofluorescence and Confocal Microscopy of Dense and Thick Samples JAN DEMAY, EMBL, Heidelberg, Germany
	PM PM		SPECIAL INTEREST SUBGR	OUP MEETINGS				
			B. (Hoom A109/101) C. (Room A109/111) D. (Room A108) E. (Room A102) F. (Room A102) G. (Room A104/106) H. (Room C104) I. (Room C105/107) J. (Room C105/107) M. (Room C106) M. (Room C101/103) D. (Room C108/110) C. (Room C109) Head C. (Room C108/110) C. (Room C109) E. (Room C109) E. (Room C109) E. (Room C108/110) E. (Room C108/110) E. (Room C108/110) E. (Room C109) E. (Room C109)	as Experimental Systems II. (bet the lial Cell Heterogeneity and Org e Display of Proteins and Peptide. I Transduction Mediating Gene Electron ScB Educational Video Project: Frontiers in Medical Rehabilitation Are the Roles of the Multi-Drug Rediate Filament Function at the Cecognition of Electric and Magner Biology and Public Policy. Scopic Detection of Signaling Evenical Deformation and Cell Responsomes Structure and Epigenetic for the Cytoskeleton and Motor Pros a Quantum Biology of Excitationly of Calcium-dependent Phospirical Deformation of Phospiral Phospiral Programment Phospiral Programment Phospiral Programment Phospiral Proteins and Phospiral Phospiral Programment Program	janspecificity. xpression for Cell Growth and Diff A Call for Sequences. Research: Cellular Aspects of Re esistance-Like (MDR-like) Transp Cellular and Organismic Levels. tic Fields by Biological Tissues ar ints during Development. inses. c Regulation. Proteins in Endomembrane Trafficon.	erentiation. ehabilitation. orter? d Its Functional Consequence.	lay, 9:00 AM - 5:30 PM)	
	PM PM	•	SCIENCE POLICY ADDRESS SENATOR HA	(HALL A) NNK BROWN, (R-CO)				
	PM PM							
9:00	PM		RECEPTION (BALLROOM 1/2/3)					
9:00	PM		STUDENT RECEPTION (BALLROOM 4)					

LIST OF PROPOSED SPEAKERS

Mary E. Clutter, National Science Foundation, Washington, D.C.

Paul Doty, Kennedy School of Government, Harvard University, Cambridge

Thomas S. Edgington, Chairman, Public Affairs Executive Committee, Federation of American Societies for Experimental Biology and The Scripps Research Institute, La Jolla, California

Rogier A.H.G. Holla, Technology and Policy Program, Massachusetts Institute of Technology, Cambridge

Senator Patrick J. Leahy and Michael D. Fernandez, The United States Senate, Washington, D.C.

Thomas E. Pollard, ASCB Public Policy Committee, Johns Hopkins University School of Medicine, Baltimore

Govindan Parayil, Illinois Institute of Technology, Chicago

Fernando Quezada, Biotechnology Center of Excellence, Boston

Satish C. Tripathi, IIT Research Institute, Chicago and Massachusetts Institute of Technology, Cambridge

There See meet post